

SPARK PLUG APPLICATION CHART

U.S. Model	Spark Plug	Plug Gap
1600, 1602, 2002, 2002 Tii, 2500, 2600 Bavaria, 3.0 Bavaria, 3.0C, 3.0Si	Bosch W8DC	.024" - .028" (0.6 – 0.7 mm)
3 Series		
318i (E30, E36) M42 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
318i (E30) M10 All	Bosch WR9DS	.032" - .036" (0.8 – 0.9 mm)
318i, Z3 (E36) M44 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
320i (E21) M10 All '77 – '79	Bosch W9D	.024" - .028" (0.6 – 0.7 mm)
320i (E21) M10 All '80 – '83	Bosch WR9DS	.024" - .028" (0.6 – 0.7 mm)
325e (E30) M20 All	Bosch WR9LS	.028" - .032" (0.7 – 0.8 mm)
325e (E30) M20 All*	Bosch W8CLR	.028" - .032" (0.7 – 0.8 mm)
325i (E30) M20 All	Bosch W8CLR/W8LPR (+)	.028" - .032" (0.7 – 0.8 mm)
325iX (E30) M20 All	Bosch W8CLR/W8LPR (+)	.028" - .032" (0.7 – 0.8 mm)
M3 (E30) S14	Bosch X5DC	.024" - .028" (0.6 – 0.7 mm)
325i (E36) M50 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
323i, 328i, Z3 (E36) M52 All	Bosch F8LDCR	Non-adjustable
Z3 (E36) M52TU, M54 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
323i, 325i, 328i, 330i (E46) M52TU, M54, M56 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
325i, 328i, 330i (E90/91) N52/N52KP	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable
335i (E90/92) N54	Bosch ZGR6STE2	Non-adjustable
M3 (E36) S50	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
M3, (E36) M roadster, M coupe S52 All	Bosch FGR8KQC	Non-adjustable
M3 (E46), M roadster, M coupe S54 All	NGK DCPR8EKP	Non-adjustable
Z4		
Z4 (E85) roadster M54 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
Z4 (E85) roadster N52 All	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable
M roadster/coupe S54	NGK DCPR8EKP	Non-adjustable
5 Series		
528e (E28) M20 All '82 – '87	Bosch WR9LS	.028" - .032" (0.7 – 0.8 mm)
528e (E28) M20 All 1988*	Bosch W8LCR	.028" - .032" (0.7 – 0.8 mm)
528i (E12) M30 All 1979	Bosch W9D	.024" - .028" (0.6 – 0.7 mm)
528i (E12) M30 All '80 – '81	Bosch WR9DS	.024" - .028" (0.6 – 0.7 mm)
525i (E34) M20 All	Bosch WLCR / W8LPR (+)	.028" - .032" (0.7 – 0.8 mm)
525i (E34) M50 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
528i (E39) M52 All	Bosch F8LDCR	Non-adjustable
525i, 528i, 530i (E39) M52TU, M54 All	NGK BKR6EQUP	Non-adjustable
525i, 530i (E60/61) M54	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
525i, 530i (E60/61) N52	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable
530i (E12) M30 All	Bosch W8DC	.024" - .028" (0.6 – 0.7 mm)
530i (E34) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
533i / 535i (E28) M30 All '83 – '88	Bosch WR9LS	.028" - .032" (0.7 – 0.8 mm)
535i (E34) M30 All	Bosch WLCR / W8LPR (+)	.028" - .032" (0.7 – 0.8 mm)
540i (E34) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
540i (E39) M62 All up to 7/97	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
540i (E39) M62 All from 7/97	Bosch F8LDCR	Non-adjustable
540i (E39) M62TU All	NGK BKR6EQUP	Non-adjustable
545i(E60) N62 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
550i (E60) N62TU All	NGK IZFR6H11 Bosch FR7KPP332	Non-adjustable

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5 Series		
M5 (E28) S38	Bosch X5DC	.024" - .028" (0.6 – 0.7 mm)
M5 (E34) S38	Bosch Y6DC	.024" - .028" (0.6 – 0.7 mm)
M5 (E39), Z8 (E52) S62	NGK BKR6EQUP	Non-adjustable
M5 (E60) S85	NGK LKR8AP	Non-adjustable
6 Series		
630CSi (E24) M30 All	Bosch W8DC	.024" - .028" (0.6 – 0.7 mm)
633CSi (E24) M30 All '78 – '79	Bosch W9D	.024" - .028" (0.6 – 0.7 mm)
633CSi (E24) M30 All '80 – '81	Bosch WR9DS	.024" - .028" (0.6 – 0.7 mm)
633/635 CSi (E24) M30 All '82-'84	Bosch WR9LS	.028" - .032" (0.7 – 0.8 mm)
635 CSi (E24) M30 '88* - '89*	Bosch W8LCR/W8PR (+)	.028" - .032" (0.7 – 0.8 mm)
645 Ci/Cic (E63/64) N62	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
650 Ci/Cic (E63/64) N62TU	NGK IZFR6H11 Bosch FR7KPP332	Non-adjustable
M6 (E24) S38	Bosch X5DC	.024" - .028" (0.6 – 0.7 mm)
M6 (E63/64) S85	NGK LKR8AP	Non-adjustable
7 Series		
733i (E23) M30 All '79 – '79	Bosch W9D	.024" - .028" (0.6 – 0.7 mm)
733i (E23) M30 All '80 – '81	Bosch WR9DS	.024" - .028" (0.6 – 0.7 mm)
733i / 735 (E23) M30 All '82 – '84	Bosch WR9LS	.028" - .032" (0.7 – 0.8 mm)
735i(E32) M30 All	Bosch W8LCR / W8LPR (+)	.028" - .032" (0.7 – 0.8 mm)
740i (E32) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M62 All up to 7/97	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M62 All from 7/97	Bosch F8LDCR	Non-adjustable
740i (E38) M62TU All	NGK BKR6EQUP	Non-adjustable
745i (E65/66) N62 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
750i (E32) M70 All	Bosch F8LCR	.028" - .032" (0.7 – 0.8 mm)
750i (E38) M73 All	Bosch F9LCR2	Non-adjustable
750i (E38) M73TU All	NGK BKR6EQUP	Non-adjustable
750i (E65/66) N62TU All	NGK IZFR6H11 Bosch FR7KPP332	Non-adjustable
760i (E65/66) N73	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
8 Series		
840Ci (E31) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
840Ci (E31) M62 All	Bosch F7LDCR	Non-adjustable
850i (E31) M70 All	Bosch F8LCR	.028" - .032" (0.7 – 0.8 mm)
850i (E31) M73 All	Bosch F9LCR2	Non-adjustable
850CSi (E31) S70	Bosch F8LCR2	Non-adjustable
SAV		
X3 (E83) M54	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
X3 (E83) N52	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable
X5 (E53) M62TU, M54 All	NGK BKR6EQUP	Non-adjustable
X5 (E53) N62	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
X5 (E70) N52	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable
X5 (E70) N62TU	NGK IZFR6H11 Bosch FR7KPP332	Non-adjustable
* With Motronic M1.1		
(+) M20 and M30 engines - platinum spark plugs may be used in place of the standard type.		

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SPECIAL NOTES

1. The BMW Special Tool combinations listed below will facilitate spark plug installation.

Engine	Tool Number	Engine	Tool Number
M10	90 88 6 121 200	M42, 44	
M20	and	M50, M52/TU, M54	88 88 6 121 171
M30	standard (13/16") spark plug socket	N52, N54, S50, S52, S54	and
		M60, M62/TU, N62/TU	90 88 6 121 200
S14	88 88 6 121 172	M70, M73/TU, N73	or
	and	S70, S62, S85	88 88 6 121 172
S38	88 88 6 121 160 (S38 tool)		

2. Torque specifications for unlubricated spark plugs (i.e., no oil, grease, etc. on threads)
Standard Engines: Spark Plug Thread = M14 x 1.25
31 ± 2Nm (23 ± 1.5 ft/lb)
Motorsport Engines: Spark Plug Thread = M12 x 1.25
23 ± 3Nm (17 ± 2.2 ft/lb)